

WEST Search History

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DATE: Tuesday, April 26, 2005

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		<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L8	L6 and 13-hydroperoxyoctadeca	1
<input type="checkbox"/>	L7	L6 and 9-hydroperoxyoctadeca	0
<input type="checkbox"/>	L6	hydroperoxide lyase	39
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	L1 and 9-hydroperoxyoctadeca	1
<input type="checkbox"/>	L4	L1 and 13-hydroperoxyoctadeca	1
<input type="checkbox"/>	L3	L1 and 13-hydroperoxyoctadeca-9,11-dienoic	2
<input type="checkbox"/>	L2	L1 and 9-hydroperoxyoctadeca-10,12-dienoic	2
<input type="checkbox"/>	L1	hydroperoxide lyase	54

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6271018 B1

Using default format because multiple data bases are involved.

L2: Entry 1 of 2

File: USPT

Aug 7, 2001

US-PAT-NO: 6271018

DOCUMENT-IDENTIFIER: US 6271018 B1

TITLE: Muskmelon (Cucumis melo) hydroperoxide lyase and uses thereof

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brash; Alan	Brentwood	TN		
Tijet; Nathalie	Tucson	AZ		
Whitehead; Ian M.	Singapore			SG

US-CL-CURRENT: 435/252.3; 435/232, 435/252.31, 435/252.32, 435/252.33, 435/254.2,
435/320.1, 435/325, 435/348, 435/419, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 2. Document ID: US 20020098570 A1

L2: Entry 2 of 2

File: DWPI

Jul 25, 2002

DERWENT-ACC-NO: 2003-090076

DERWENT-WEEK: 200308

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TITLE: Novel isolated fatty acid hydroperoxide lyase has activity for both 9-hydroperoxide substrates and 13-hydroperoxide substrates, useful for cleaving 9-hydroperoxylinoleic acid or 13-hydroperoxylinoleic acid

INVENTOR: BRASH, A; TIJET, N ; WHITEHEAD, I M

PRIORITY-DATA: 2000US-0537357 (March 29, 2000), 2001US-0884260 (June 19, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020098570 A1</u>	July 25, 2002		052	C12N009/88

INT-CL (IPC): C07 H 21/04; C12 N 5/04; C12 N 9/88; C12 P 21/02

ABSTRACTED-PUB-NO: US20020098570A

BASIC-ABSTRACT:

NOVELTY - An isolated fatty acid hydroperoxide lyase (I) having activity for both 9-hydroperoxide substrates and 13-hydroperoxide substrates, where K_m and V_{max} of the lyase for 9-hydroperoxylinolenic acid are greater than K_m and V_{max} of the lyase for 9-hydroperoxylinoleic acid, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) an isolated nucleic acid (II) that encodes (I);
- (2) a vector (III) comprising (II); and
- (3) a cell (IV) containing an exogenous nucleic acid comprising (II).

USE - (I) is useful for cleaving a (9S,10E,12Z) 9-hydroperoxyoctadeca-10,11-2-dienoic acid or a (9S,10E,12Z,15Z) 9-hydroperoxyoctadeca-10,12,15-trienoic acid into a C9-aldehyde and a C9-oxononanoic acid by contacting (I) with the (9S,10E,12Z) 9-hydroperoxyoctadeca-10,12-dienoic acid or the (9S,10E,12Z,15Z) 9-hydroperoxyoctadeca-10,12,15-trienoic acid. (I) is useful for cleaving a (9Z,11E,13S) 13-hydroperoxyoctadeca-9,11-dienoic acid or a (9Z,11E,13S,15Z) 13-hydroperoxyoctadeca-9,11,15-trienoic acid into a C6-aldehyde and a C12-oxocarboxylic acid, by contacting (I) with the (9Z,11E,13S) 13-hydroperoxyoctadeca-9,11-dienoic acid or the (9Z,11E,13S,15Z) 9-hydroperoxyoctadeca-9,11,15-trienoic acid. (I) is useful for preparing 3-(Z)-nonenal, (3Z,6Z)-nonadienal, 2-(E)-nonenal, (2E,6Z)-nonadienal, or their corresponding alcohols from (9S,10E,12Z) 9-hydroperoxyoctadeca-10,12-dienoic acid or (9S,10E,12Z,15Z) 9-hydroperoxyoctadeca-10,12,15-trienoic acid, by contacting the (9S,10E,12Z) 9-hydroperoxyoctadeca-10,12-dienoic acid or (9S,10E,12Z,15Z) 9-hydroperoxyoctadeca-10,12,15-trienoic acid with (I), thus converting the (9S,10E,12Z) 9-hydroperoxyoctadeca-10,12-dienoic acid into 3(Z)-nonenal or the (9S,10E,12Z,15Z) 9-hydroperoxyoctadeca-10,12,15-trienoic acid into (3Z,6Z)-nonadienal, and recovering the 3-(Z)-nonenal or (3Z,6Z)-nonadienal, reducing the 3-(Z)-nonenal into 3(Z)-nonenol or the (3Z,6Z)-nonadienal into (3Z,6Z)-nonadienol and recovering the 3-(Z)-nonenol or (3Z,6Z)-nonadienol, or isomerizing the 3-(Z)-nonenal or (3Z,6Z)-nonadienal under temperature and pH conditions effective to obtain 2-(E)-nonenal or (2E,2Z)-nonadienal and either recovering the formed 2-(E)-nonenal or (2E,2Z)-nonadienal or reducing the 2-(E)-nonenal to 2-(E)-nonenol or the (2E,2Z)-nonadienal to (2E,2Z)-nonadienol and recovering 2-(E)-nonenol or (2E,2Z)-nonadienol from the medium. (I) is useful for preparing n-hexanal, 3-(Z)-hexen-1-al, 2-(E)-hexen-1-al, or their corresponding alcohols from (9Z,11E,13S) 13-hydroperoxyoctadeca-9,11-dienoic acid or (9Z,11E,13S,15Z) 13-hydroperoxyoctadeca-9,11,15-trienoic acid, by contacting (9Z,11E,13S) 13-hydroperoxyoctadeca-9,11-dienoic acid or (9Z,11E,13S,15Z) 13-hydroperoxyoctadeca-9,11,15-trienoic acid with (I), thus converting (9Z,11E,13S) 13-hydroperoxyoctadeca-9,11-dienoic acid into n-hexanal or (9Z,11E,13S,15Z) 13-hydroperoxyoctadeca-9,11,15-trienoic acid into 3-(Z)-hexen-1-al, and either recovering the n-hexanal or 3-(Z)-hexen-1-al, reducing the n-hexanal into n-hexanol or 3-(Z)-hexen-1-al into 3-(Z)-hexen-1-ol and recovering the n-hexanol or 3-(Z)-hexen-1-ol, or isomerizing the 3-(Z)-hexen-1-al under temperature and pH conditions effective to obtain 2-(Z)-hexen-1-al and either recovering the formed 2-(Z)-hexen-1-al or reducing the 2-(Z)-hexen-1-al to 2-(Z)-hexen-1-ol and recovering the 2-(Z)-hexen-1-ol from the medium (all claimed). (I) is useful for cleaving 9-hydroperoxylinoleic acid, 9-hydroperoxylinolenic acid, 13-hydroperoxylinoleic acid or 13-hydroperoxylinolenic acid.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWAC	Draw D
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